**Appendix Table A3.** Late Symptoms during the Past Six Months among Gynaecological Cancer Survivors Treated with Pelvic Radiation Therapy with or without Surgery and Control Women, all symptoms

	Survivors	Controls	Survivors vs. Controls Age adjusted	RT with Surgery	RT with Surgery vs. Controls Age adjusted RR	RT without Surgery	RT without Surgery vs. Controls Age adjusted RR
	N=616 (%)	N=344 (%)	RR (95% CI)	N=549 (%)	(95% CI)	N = 67 (%)	(95% CI)
Anal-sphincter symptoms							
Emptying of all stools into clothing without forewarning	70/606 (10)	2/244 (0.0)	10 = (1 0 10 2)	55 (5 A C (10)	0.0 (0.0.00.0)	15/60 (05)	20.2 (0.4.404.4)
at least occasionally	70/606 (12)	3/344 (0.9)	12.7 (4.0-40.3)	55/546 (10)	8.8 (2.8-28.3)	15/60 (25)	30.3 (9.1-101.1)
Leakage of loose stools while awake at least occasionally	199/608 (33)	18/344 (5)	6.0 (3.7-9.6)	171/545 (31)	5.5 (3.4-8.8)	28/63 (44)	8.5 (5.0-14.5)
Leakage of loose stools while asleep at least occasionally	72/611 (12)	8/343 (2)	5.5 (2.6-11.4)	58/548 (11)	4.4 (2.1-9.2)	14/63 (22)	9.8 (4.3-22.4)
Anal leakage of mucus while asleep at least occasionally	32/607 (5)	4/344 (1)	4.9 (1.7-14.1)	25/545 (5)	3.3 (1.1-9.4)	7/62 (11)	9.7 (2.9-32.3)
Leakage of solid stools while awake at least occasionally	46/607 (8)	5/344 (1)	4.4 (1.7-11.0)	37/544 (7)	3.4 (1.4-8.7)	9/63 (14)	9.3 (3.2-27.0)
Faecal leakage without forewarning despite previous	100/05 (21)	22/244 (7)	42(29(4)	1.69/545 (21)	20(2660)	20/60 (22)	49(2992)
defaecation at least occasionally	188/605 (31)	23/344 (7)	4.2 (2.8-6.4)	168/545 (31)	3.9 (2.6-6.0)	20/60 (33)	4.8 (2.8-8.2)
Defaecation urgency with fecal leakage at least occasionally	298/603 (49)	42/343 (12)	4.0 (3.0-5.4)	262/541 (48)	3.8 (2.8-5.2)	36/62 (58)	4.8 (3.3-6.8)
Foul smelling flatulence at least once a week	116/602 (19)	22/343 (12)	3.7 (2.4-5.8)	102/541 (19)	3.8 (2.4-5.9)	14/61 (23)	3.6 (2.0-6.7)
	87/603 (14)		` ,		` ′	, ,	` '
Anal leakage of mucus while awake at least occasionally	` /	14/343 (4)	3.5 (2.0-6.1)	76/542 (14)	3.2 (1.8-5.6)	11/61 (18)	4.1 (1.9-8.6)
Self-perception of faecal odor at least occasionally	108/606 (18)	18/340 (5)	3.3 (2.0-5.4)	95/544 (17)	3.1 (1.9-5.2)	13/62 (21)	4.0 (2.1-7.8)
Anal leakage of blood while asleep at least occasionally	9/608 (1)	2/343 (0.5)	2.7 (0.6-12.7)	8/546 (1)	2.7 (0.5-13.1)	1/62 (2)	2.9 (0.3-29.4)
Involuntary flatulence at least once a week	127/606 (21)	33/343 (10)	2.4 (1.7-3.5)	111/545 (20)	2.3 (1.5-3.3)	16/61 (26)	2.8 (1.7-4.8)
Unwanted defaecation while emptying bladder at least	229/(02/(20)	57/242 (17)	2.4 (1.0.2.2)	212/5/11 (20)	24(1021)	25/62 (40)	22(1(24)
occasionally	238/603 (39)	57/342 (17)	2.4 (1.9-3.2)	213/541 (39)	2.4 (1.8-3.1)	25/62 (40)	2.3 (1.6-3.4)
Anal leakage of blood while awake at least occasionally	42/608 (7)	12/343 (4)	2.0 (1.1-3.9)	37/545 (7)	2.0 (1.0-3.9)	5/63 (8)	2.2 (0.8-6.7)
Involuntary loud flatulence at least occasionally	359/607 (59)	150/344 (44)	1.4 (1.2-1.6)	314/546 (58)	1.3 (1.1-1.5)	45/61 (74)	1.7 (1.4-2.1)
Anal pain at least occasionally	129/608 (21)	64/343 (19)	1.2 (0.9-1.6)	116/548 (21)	1.2 (0.9-1.6)	13/60 (22)	1.2 (0.7-2.0)
Pruritus ani at least occasionally	200/609 (33)	114/343 (33)	1.0 (0.9-1.3)	176/547 (32)	1.0 (0.8-1.2)	24/62 (39)	1.2 (0.8-1.7)
Leakage of solid stools while asleep at least occasionally	15/611 (2)	0/344 (0)	-	12/548 (2)	-	3/63 (5)	-
Bowel symptoms							
Defaecation urgency at least once a week	175/602 (29)	19/341 (6)	5.7 (3.5-9.1)	157/542 (29)	5.7 (3.5-9.1)	18/60 (30)	6.0 (3.3-10.8)
Protracted abdominal pain lasting more than 1 year, yes	69/593 (12)	15/339 (4)	3.2 (1.9-5.6)	59/532 (11)	3.1 (1.7-5.5)	10/61 (16)	3.8 (1.8-7.9)
Loose stools at least once a week	234/602 (39)	48/344 (14)	3.0 (2.2-3.9)	205/540 (38)	2.9 (2.1-3.9)	29/62 (47)	3.5 (2.4-5.1)
Abdominal pain and vomiting at least occasionally	60/605 (10)	13/344 (4)	2.6 (1.4-4.7)	49/545 (9)	2.2 (1.2-4.1)	11/60 (18)	4.8 (2.2-10.1)
Mucus in stools at least occasionally	156/607 (26)	45/343 (13)	2.1 (1.5-3.0)	143/545 (26)	2.2 (1.6-3.0)	13/62 (21)	1.6 (0.9-2.8)
Abdominal bloating at least once a week	147/605 (24)	60/342 (18)	1.8 (1.4-2.3)	129/544 (24)	1.8 (1.3-2.3)	18/61 (30)	1.8 (1.1-2.7)
Rectal bleeding at least occasionally	103/604 (17)	42/341(12)	1.6 (1.1-2.2)	92/545 (17)	1.6 (1.2-2.4)	11/59 (19)	1.5 (0.8-2.8)
Abdominal pain and stools at least occasionally	198/602 (33)	79/343 (23)	1.6 (1.3-2.0)	171/541 (32)	1.5 (1.2-1.9)	27/61 (44)	2.0 (1.4-2.8)
1 10 00 min and bloom at reast occasionally	170,002 (33)	1515 15 (25)	1.0 (1.0 2.0)	1,1,5,11 (52)	1.0 (1.2 1.7)	27/01 (17)	2.0 (1.4 2.0)

**Appendix Table A3.** Late Symptoms during the Past Six Months among Gynaecological Cancer Survivors Treated with Pelvic Radiation Therapy with or without Surgery and Control Women, all symptoms

	Survivors N=616 (%)	<b>Controls</b> N=344 (%)	Survivors vs. Controls Age adjusted RR (95% CI)	RT with Surgery N=549 (%)	RT with Surgery vs. Controls Age adjusted RR (95% CI)	RT without Surgery N= 67 (%)	RT without Surgery vs. Controls Age adjusted RR (95% CI)
Bowel symptoms continued	( , , )	(***)					
Abdominal pain at least occasionally	307/604 (51)	137/340 (40)	1.4 (1.2-1.6)	272/544 (50)	1.4 (1.2-1.6)	35/60 (58)	1.5 (1.2-1.9)
Abdominal pain and bloating at least occasionally	228/603 (38)	106/340(31)	1.4 (1.2-1.7)	199/542 (37)	1.4 (1.2-1.7)	29/61 (48)	1.6 (1.2-2.1)
Incomplete bowel emptying at least occasionally	296/609 (49)	152/340 (45)	1.1 (1.0-1.3)	273/549 (50)	1.2 (1.0-1.4)	23/60 (38)	0.9 (0.6-1.2)
Ability to exert strain at stool, at least moderately good	187/604 (31)	108/338 (32)	1.0 (0.8-1.2)	176/543 (32)	1.1 (0.9-1.3)	11/61 (18)	0.6 (0.3-1.0)
Hard stools at least once a week	40/608 (7)	32/344 (9)	0.7 (0.5-1.2)	38/546 (7)	0.8 (0.5-1.3)	2/62 (3)	0.3 (0.1-1.4)
Urinary tract symptoms							
Difficulty feeling the need to empty bladder at least							
occasionally	56/604 (9)	11/343 (3)	2.8 (1.5-5.4)	46/544 (8)	2.5 (1.3-5.0)	10/60 (17)	5.1 (2.3-11.3)
Difficulty emptying bladder at least occasionally	49/602 (8)	11/343 (3)	2.7 (1.4-5.2)	43/542 (8)	2.7 (1.4-5.5)	6/60 (10)	3.2 (1.3-8.4)
Difficulty feeling full bladder at least occasionally	90/602 (15)	18/342 (5)	2.7 (1.6-4.5)	76/543 (14)	2.4 (1.4-4.1)	14/59 (24)	4.5 (2.4-8.4)
Haematuria at least occasionally	20/606 (3)	5/344 (1)	2.5 (0.9-6.9)	16/546 (3)	2.4 (0.8-6.8)	4/60 (7)	5.0 (1.4-17.8)
Straining to initiate emptying of bladder at least							
occasionally	77/605 (13)	21/343 (6)	2.2 (1.4-3.7)	68/545 (12)	2.4 (1.5-3.9)	9/60 (15)	2.5 (1.2-5.3)
Painful emptying of bladder at least occasionally	60/605 (10)	20/341 (6)	2.0 (1.2-3.3)	52/545 (10)	1.9 (1.1-3.3)	8/60 (13)	2.3 (1.1-5.0)
Urinary incontinence without urinary urgency at least							
occasionally	88/603 (15)	24/342 (7)	1.8 (1.2-2.9)	81/543 (15)	1.9 (1.2-3.0)	7/60 (12)	1.6 (0.7-3.6)
Night-time emptying of bladder at least twice per night or							
more, yes	222/607 (37)	58/341 (17)	1.8 (1.4-2.4)	199/548 (36)	1.8 (1.4-2.4)	23/59 (39)	2.2 (1.5-3.2)
Need of antibiotics due to urinary tract infection twice or							
more, yes	93/605 (15)	31/344 (9)	1.6 (1.1-2.3)	86/545 (16)	1.7 (1.1-2.5)	7/60 (12)	1.3 (0.6-2.9)
Urinary incontinence due to urinary urgency at least							
occasionally	209/607 (34)	66/342 (19)	1.6 (1.2-2.0)	186/545 (34)	1.5 (1.2-2.0)	23/62 (37)	1.8 (1.2-2.7)
Slow emptying of bladder at least occasionally	122/605 (20)	47/344 (14)	1.6 (1.2-2.2)	106/546 (19)	1.5 (1.1-2.2)	16/59 (27)	2.0 (1.2-3.3)
Self-perception of urine odor at least occasionally	149/605 (25)	62/341(18)	1.4 (1.1-1.9)	126/544 (23)	1.3 (1.0-1.8)	23/61 (38)	2.1 (1.4-3.0)
Urinary urgency at least occasionally	346/605 (57)	139/343 (41)	1.3 (1.1-1.5)	308/544 (57)	1.3 (1.1-1.5)	38/61 (62)	1.5 (1.2-1.8)
Feeling of incomplete bladder emptying at least							
occasionally	232/604 (38)	101/343 (29)	1.3 (1.1-1.6)	203/544 (37)	1.3 (1.0-1.6)	29/60 (48)	1.6 (1.2-2.2)

**Appendix Table A3.** Late Symptoms during the Past Six Months among Gynaecological Cancer Survivors Treated with Pelvic Radiation Therapy with or without Surgery and Control Women, all symptoms

	Survivors N=616 (%)	Controls N=344 (%)	Survivors vs. Controls Age adjusted RR (95% CI)	RT with Surgery N=549 (%)	RT with Surgery vs. Controls Age adjusted RR (95% CI)	RT without Surgery N= 67 (%)	RT without Surgery vs. Controls Age adjusted RR (95% CI)
Symptoms related to sexuality	, ,	, ,		, ,		. ,	
Protracted genital pain lasting for more than 1 year yes	28/593 (5)	4/339 (1)	5.0 (1.7-14.5)	21/532 (4)	4.3 (1.4-13.0)	7/61 (11)	9.6 (2.9-31.8)
Genital bleeding during or after intercourse at least once,							
yes	54/585 (9)	13/329 (4)	3.7 (2.1-6.7)	45/523 (9)	3.6 (2.0-6.7)	9/62 (15)	3.9 (1.8-8.4)
Deep dyspareunia when having intercourse, at least a							
little	101/583 (17)	23/330 (7)	3.7 (2.4-5.7)	90/521 (17)	3.7 (2.4-5.8)	11/62 (18)	3.0 (1.6-5.7)
Vaginal lubrication when sexually aroused, no	39/577 (7)	7/333 (2)	2.9 (1.3-6.4)	37/517 (7)	2.9 (1.3-6.5)	2/60 (3)	1.6 (0.3-7.5)
Decreased ability for intercourse leading to lower							
intercourse frequency, at least a little	176/575 (31)	37/327 (11)	2.9 (2.1-4.1)	160/515 (31)	2.9 (2.0-4.0)	11/60 (27)	2.5 (1.5-4.1)
Vaginal elasticity, no	172/502 (34)	41/302 (14)	1.8 (1.3-2.4)	148/451 (33)	1.6 (1.2-2.2)	24/51 (47)	2.5 (1.7-3.7)
Genital swelling when sexually aroused, no	82/571 (14)	35/327 (11)	1.5 (1.0-2.2)	72/512 (14)	1.5 (1.0-2.2)	10/59 (17)	1.6 (0.9-3.1)
Superficial dyspareunia when having intercourse, at least							
a little	140/584 (24)	67/330 (20)	1.5 (1.2-2.0)	125/523 (24)	1.5 (1.1-2.0)	15/61 (25)	1.4 (0.8-2.2)
Sexual arousal in a sexual situation, no	55/578 (10)	20/331 (6)	1.3 (0.8-2.1)	50/516 (10)	1.3 (0.8-2.2)	5/62 (8)	1.3 (0.5-3.2)
Sensitivity to touch inside vagina, no	221/540 (41)	65/310 (21)	1.3 (1.0-1.6)	192/485 (40)	1.2 (1.0-1.5)	29/55 (53)	1.7 (1.3-2.2)
Sensitivity to touch of labia and clitoris, no	186/558 (33)	61/320 (19)	1.2 (0.9-1.5)	163/501 (33)	1.1 (0.9-1.4)	23/57 (40)	1.5 (1.1-2.1)
Chafing of labia, yes	117/573 (20)	71/329 (22)	1.1 (0.8-1.4)	103/514 (20)	1.1 (0.8-1.4)	14/59 (24)	1.2 (0.7-1.9)
Orgasm, no	294/565 (52)	98/323 (30)	1.1 (1.0-1.3)	265/507 (52)	1.1 (0.9-1.3)	29/58 (50)	1.1 (1.0-1.4)
Pelvic bone symptoms							
Pubic pain when walking indoors at least occasionally	46/603 (8)	6/343 (2)	4.9 (2.1-11.6)	35/542 (6)	4.1 (1.7-10.2)	11/61 (18)	10.3 (4.0-26.7)
Pubic pain when walking outdoors 500 m at least							
occasionally	42/596 (7)	7/343 (2)	3.7 (1.7-8.4)	34/536 (6)	3.3 (1.4-7.7)	8/60 (13)	6.6 (2.5-17.5)
Pubic pain, yes	67/603 (11)	12/339 (4)	3.4 (1.9-6.4)	53/544 (10)	3.0 (1.6-5.7)	14/59 (24)	7.0 (3.5-14.2)
Protracted hip pain lasting for more than 1 year, yes	144/593 (24)	65/339 (19)	1.2 (0.9-1.5)	127/521 (24)	1.1 (0.8-1.5)	17/61 (28)	1.5 (1.0-2.3)
Hip pain when walking indoors at least occasionally	191/598 (32)	97/341 (28)	1.1 (0.9-1.3)	167/538 (31)	1.0 (0.8-1.3)	24/60 (40)	1.4 (1.0-2.0)
Protracted back pain lasting for more than 1 year, yes	180/593 (30)	96/339 (28)	1.1 (0.9-1.3)	161/532 (30)	1.1 (0.8-1.3)	19/61 (31)	1.1 (0.7-1.6)
Hip pain, yes	212/599 (35)	113/343 (33)	1.0 (0.8-1.2)	182/538 (34)	0.9 (0.8-1.2)	30/61 (49)	1.5 (1.1-2.0)
Hip pain when walking outdoors 500 m at least	(3-7)	()	· · · · · · · · · · · · · · · · · · ·	()	· · · (· · · · · · · · · · · · · · · ·	( )	( <b></b> )
occasionally	193/598 (32)	102/340 (30)	1.0 (0.8-1.3)	165/536 (31)	1.0 (0.8-1.2)	28/62 (45)	1.5 (1.1-2.0)
Protracted joint pain lasting for more than 1 year, yes	126/593 (21)	64/339 (19)	1.0 (0.8-1.4)	113/532 (21)	1.0 (0.8-1.4)	13/61 (21)	1.1 (0.7-1.9)
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**Appendix Table A3.** Late Symptoms during the Past Six Months among Gynaecological Cancer Survivors Treated with Pelvic Radiation Therapy with or without Surgery and Control Women, all symptoms

·			Survivors vs. Controls	RT	RT with Surgery vs. Controls	RT without	RT without Surgery vs. Controls
	Survivors N=616 (%)	Controls N=344 (%)	Age adjusted RR (95% CI)	with Surgery N=549 (%)	Age adjusted RR (95% CI)	Surgery N= 67 (%)	Age adjusted RR (95% CI)
Pelvic bone symptoms continued							_
Sacral pain when walking outdoors 500 m at least							
occasionally	190/584 (33)	119/343 (35)	0.9 (0.7-1.1)	166/524 (32)	0.9 (0.7-1.1)	24/60 (40)	1.1 (0.8-1.6)
Sacral pain, yes	232/600 (39)	179/344 (52)	0.8 (0.7-0.9)	196/539 (36)	0.7 (0.6-0.8)	36/61 (59)	1.1 (0.9-1.4)
Sacral pain when walking indoors at least occasionally	194/593 (33)	134/342 (39)	0.8 (0.7-1.0)	166/531 (31)	0.8 (0.6-1.0)	28/62 (45)	1.2 (0.9-1.6)
Lower abdomen and leg symptoms							
Erysipelas on abdomen or legs, yes	17/597 (3)	3/336 (1)	3.6 (1.0-12.8)	14/537 (3)	4.0 (1.1-14.5)	3/60 (5)	5.2 (1.1-25.1)
Lower abdominal heaviness at least occasionally	119/600 (20)	38/344 (11)	2.1 (1.5-3.0)	101/540 (19)	2.1 (1.4-3.0)	18/60 (30)	2.7 (1.7-4.5)
Pain in lower abdomen in connection with edema at least							
occasionally	92/607 (15)	33/343 (10)	1.9 (1.3-2.8)	75/546 (14)	1.7 (1.1-2.6)	17/61 (28)	3.0 (1.8-5.0)
Leg pain in connection with edema at least occasionally	164/606 (27)	54/342 (16)	1.7 (1.3-2.3)	145/545 (27)	1.7 (1.2 (2.2)	19/61 (31)	2.0 (1.3-3.2)
Swollen lower abdomen at least occasionally	121/599 (20)	51/342 (15)	1.7 (1.3-2.4)	106/538 (20)	1.8 (1.3-2.5)	15/61 (25)	1.7 (1.0-2.8)
Protracted leg pain lasting more than 1 year, yes	134/593 (21)	48/339 (14)	1.5 (1.1-2.1)	115/532 (22)	1.4 (1.0-2.0)	19/61 (31)	2.2 (1.4-3.4)
Swollen legs at least occasionally	218/606 (36)	94/344 (27)	1.4 (1.1-1.7)	197/546 (36)	1.4 (1.1-1.9)	21/60 (35)	1.4 (0.9-2.0)
Heavy legs at least occasionally	210/606 (35)	97/344 (28)	1.1 (1.1-1.6)	186/546 (34)	1.3 (1.0-1.6)	24/60 (40)	1.4 (1.0-2.1)
Abbreviations: RR = relative risk; CI = confidence interval; RT = rad	liation therapy						

The symptoms are sorted into anatomical region of supposed origin and in size order for relative risk, the number in the denominator may vary due to missing information